Translation 540,973

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	(2 of Philole 30 and Rule 70)		
pf-3234	FOR FURTHER ACTION See Notification of Transmittal of Internation Preliminary Examination Report (Form PCT/IPEA/41		
International application No.	International filing date (day/month/year) Priority date (day/month/year)		
PCT/JP2003/016804	25 December 2003 (25.12.2002)		
International Patent Classification (IPC) or a G01R 31/26	national classification and IPC		
GUIR 51/20	•		
Applicant			
	NEC CORPORATION		
1. This international preliminant			
and is transmitted to the applicant ac	ination report has been prepared by this International Preliminary Examining Authority		
- Ims Ref OR1 consists of a total of	sheets, including this cover sheet.		
This report is also accommend	dl appropri		
amended and are the basis for 70.16 and Section 607 of the	ed by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been this report and/or sheets containing rectifications made before this Authority (see Rule Administrative Instructions under the PCT).		
These annexes consist of a total	ıl of sheets.		
3. This report contains indications relations	note that C is		
I Basis of the report	ig to the following items:		
II Priority			
III Non-establishment of	opinion with regard to novelty, inventive step and industrial applicability		
IV Lack of unity of inven	Lack of unity of invention		
V Reasoned statement un			
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;			
VI Certain documents cite	Certain documents cited		
VII Certain defects in the in			
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	mornational application		
a of subi			
e of submission of the demand	Date of completion of this report		
25 December 2003 (25.12.20	2023		
	07 December 2004 (07.12.2004)		
ne and mailing address of the IPEA/JP	Authorized officer		
	Transcribed Officer		
simile No.	Tribula N		
n PCT/IPEA/409 (cover sheet) (July 1998)	Telephone No.		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/016804

I. Basis of the report	PC1/JP2003/016804
1. With regard to the elements of the international application:*	
the international application as originally filed	
the description:	
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the drawings:	
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the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language.	hed to this Authority in the language in which
and a publication of the international application (under Dule 40.24)	1
or 55.3).	liminary examination (under Rule 55.2 and/
With regard to any nucleotide and/or amino acid sequence disclosed in the preliminary examination was carried out on the basis of the sequence listing:	international application, the international
contained in the international application in written form	
Itled together with the international application in computer readable form	1
Turnshed subsequently to this Authority in written form	
furnished subsequently to this Authority in computer readable form	1
international application as filed has been furnished	es not go beyond the disclosure in the
The statement that the information recorded in computer readable form is id been furnished.	entical to the written sequence listing has
The amendments have resulted in the cancellation of:	
the description, pages	
the claims, Nos.	1
the drawings, sheets/fig	1
This report has been established as if (some of) the amendments had not been man beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c))	
Replacement sheets which have been furnished to the receiving Office in response to an this report as "originally filed" and are not annexed to this report since they are replacementally the same and the same and the same are replacementally and are not annexed to this report since they are replacementally as the same are replacementally and are not annexed to this report since they are replacementally as the same are replacementally as the s	invitation under Article 14 are referred to do not contain amendments (Rule 70 16
Iny replacement sheet containing such amendments must be referred to under item I and	annexed to this report.
n PCT/IPEA/409 (Box I) (July 1998)	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

NO

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;		
1. Statement		
Novelty (N)	Claims 1-2	26 YES
	Claims	NO
Inventive step (IS)	Claims 3-4,	
To do at 1 to a second	Claims 1, 2, 5-8,	. 10-26 NO
Industrial applicability (IA)	Claims 1-2e	6 YES

2. Citations and explanations

Document 1: JP, 2002-214279, A (Yugen Kaisha Akita Kaihatsu Center ARD), 31 July, 2002 (31.07.02)

Document 2: JP, 11-154696, A (NEC Corp.), 8 June, 1999 (08.06.99)

Document 3: JP, 5-166909, A (Fujitsu, Ltd.), 2 July, 1993 (02.07.93)

Document 4: JP, 6-266789, A (Toshiba Corp.), 22 September, 1994 (22.09.94)

Document 5: JP, 7-6599, A (SGS-Thomson Microelectronics s.r.l.), 10 January, 1995 (10.01.95)

Claims 1, 6 and 11

Documents 1 and 2 describe the invention of obtaining the mutual conductance of FET by applying a DC voltage and AC signals in an imposed way to a gate or a drain. The bias conditions are not a particular feature but a matter of design variation that a person skilled in the art could have determined as required.

Claims 2, 8, 14 and 21

SOI MOS FET is a well-known FET, as described in document 3, and there would be no particular difficulty involved in conceiving of the constitution of calculating the mutual conductance of the well-known

Claims 5, 10, 13, 15, 17, 18, 20, 22, 24 and 25

Regulating parameters to reduce the differences between measurement values and simulated values is well known as described in document 4, and there would be no particular difficulty involved in conceiving of the constitution of calculating the mutual conductance by means of simulation and regulating the parameters by comparing the results with the mutual conductance obtained by the inventions described in documents 1 and 2. Which of the parameters should be regulated is not a significant feature but a matter of design variation that a person skilled in the art could have decided as required.

Claims 7, 12, 16, 19, 23 and 26

Applying a voltage to a substrate when measuring characteristics is well known as described in document 5, and there would be no particular difficulty involved in applying the above-mentioned well-known technology